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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/537,103	03/10/2006	Ian Wilson	PZ02101	1240		
36335 GE HEALTHO	7590 12/07/200 CARE INC	EXAM	EXAMINER			
IP DEPARTMENT 101 CARNEGIE CENTER			PERREIRA, MELISSA JEAN			
PRINCETON,	, NJ 08540-6231		ART UNIT	PAPER NUMBER		
		1618				
			MAIL DATE	DELIVERY MODE		
			12/07/2009	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)			
10/537,103	WILSON ET AL.			
Examiner	Art Unit			
MELISSA PERREIRA	1618			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

eamed	patent	tenn :	aajustii	ent.	See 3/	CFR	1.704	(D).

Since this application is in condition for allowance	ion is non-final. except for formal matters, prosecution as to the merits is
ion of Claims	
Claim(s) <u>1-34</u> is/are pending in the application. 4a) Of the above claim(s) <u>9-16.31 and 32</u> is/are wit Claim(s) is/are allowed. Claim(s) <u>1-8.17-30.33 and 34</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ele	
ion Papers	
Replacement drawing sheet(s) including the correction	
under 35 U.S.C. § 119	
Certified copies of the priority documents hat Copies of the certified copies of the priority of the	vive been received. vive been received in Application No documents have been received in this National Stage CT Rule 17.2(a)).
it(s)	
ce of References Cited (PTO-892)	4) Interview Summary (PTO-413)
ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 6/1/05.	Paper No(s)/Mail Date. 5) Notice of Informat Patent Application 6) Other:
i i	This action is FINAL. Since this application is in condition for allowance closed in accordance with the practice under Ex poon of Claims Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) 9-16,31 and 32 is/are with Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) 1-3,17-30,33 and 34 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election of the condition of the priority documents have conditionally application from the International Bureau (Papelication for the condition of the

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DETAILED ACTION

Election/Restrictions

- Claims 1-34 are pending in the application.
- Applicant's election without traverse of the species of "radioactive metal ion" in the reply filed on 10/7/09 is acknowledged.
- Claims 9-16,31 and 32 are withdrawn from further consideration pursuant to 37
 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 10/7/09.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 33 and 34 provides for the use of an imaging agent, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 33 and 34 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

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6. Claims 3 and 4 recites the limitation "imaging moiety" in regards to R¹ to R¹⁴.
There is insufficient antecedent basis for this limitation in the claim as claim 2 doesn't include an imaging moiety for R¹ to R¹⁴ which are independently R.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be necatived by the manner in which the invention was made.
- Claims 1-8 and 17-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edwards et al. (WO02/067761) in view of Weinstock et al. (WO00/78145A1)
- 9. Edwards et al. (WO02/067761) discloses detectably labeled macrophage scavenger receptor antagonist (MSRA) complexes for the diagnosis and monitoring of various cardiovascular diseases including but not limited to atherosclerosis, coronary artery disease, renal disease, thrombosis, transient ischemia, etc. (abstract; p37, lines 12-18). The complexes of the disclosure include M-Ch-Ln-(BM)n wherein M is a radionuclide (i.e. ^{99m}Tc, ¹¹¹ln, ^{113m}ln, etc.; Ch is a metal chelator (i.e. a N4 ligand, N2S2 ligand); Ln is a linking group; and BM is a MSRA antagonist (p18-23; p26, lines 19+; p50, lines 6+; see claims). Edwards et al. also teaches of kits comprising the MSRAs of the disclosure (claims 38+).
- 10. Edwards et al. does not disclose a sulphonamidobenzamide MSRA.

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11. Weinstock et al. (WO00/78145A1) discloses sulphonamidobenzamide macrophage scavenger receptor antagonists (MSRA) (below) for treating cardiovascular disease including but not limited to atherosclerosis, coronary artery disease, renal disease, thrombosis, transient ischemia, etc. (abstract; p2, lines 26+; p3, lines 8+). R_3 may be R_1 aryl, etc. The MSRAs may be formulated as pharmaceutical compositions and administered as tablets, liquid preparations, etc. (p11, lines 14+).

- 13. At the time of the invention it would have been obvious to one ordinarily skilled in the art to substitute one macrophage scavenger receptor antagonist (MSRA), such as that of Weinstock et al. for another analogous macrophage scavenger receptor antagonist (MSRA), such as that of Edwards et al. as both are used for treating cardiovascular diseases. Also, the simple substitution of one known, equivalent element for another yields predictable results, such as binding macrophage scavenger receptors.
- Edwards et al. does not explicitly disclose the imaging agent precursor of Formula (IIIa), claim 20.
- 15. At the time of the invention it would have been obvious to one ordinarily skilled in the art that the M-C_h-L_n-(BM)_n of Edwards et al. comprises a C_h-L_n-(BM)_n (imaging agent precursor) prior to chelation of a radionuclide (i.e. ^{99m}Tc. ¹¹¹In, ^{113m}In, etc.) as the ^{99m}Tc-

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labeling of a (BFC) bifunctional chelator-derivatized SR-A receptor antagonist is accomplished by adding [^{99m}Tc]pertechnetate to the kit comprising a BFC-derivatized SR-A receptor antagonist/ imaging agent precursor (Edwards et al. p51, lines 1-15). Thus, the precursors provide the advantage of providing a kit that may be radiolabeled at a later date, prior to use.

Conclusion

No claims are allowed at this time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSA PERREIRA whose telephone number is (571)272-1354. The examiner can normally be reached on 9am-5pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Hartley can be reached on 571-272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Michael G. Hartley/ Supervisory Patent Examiner, Art Unit 1618

/Melissa Perreira/ Examiner, Art Unit 1618